

Exercise 1 Consider the functions f and g defined by the table of values below.

x	$f(x)$
-3	2
-2	4
-1	0
0	2
1	2
2	3
3	-2

x	$g(x)$
-3	-3
-2	-1
-1	-3
0	0
1	3
2	1
3	2

Use the pair of functions f and g to find the following values, if they exist. If the value does not exist, enter DNE.

(a) $(f + g)(-3) = \boxed{-1}$

(b) $(f - g)(2) = \boxed{2}$

(c) $(fg)(-1) = \boxed{0}$

(d) $(g - f)(1) = \boxed{1}$

(e) $\left(\frac{f}{g}\right)(0) = \boxed{DNE}$

(f) $\left(\frac{f}{g}\right)(3) = \boxed{-1}$

(g) $\left(\frac{g}{f}\right)(-1) = \boxed{DNE}$

(h) $(gf)(-2) = \boxed{-4}$